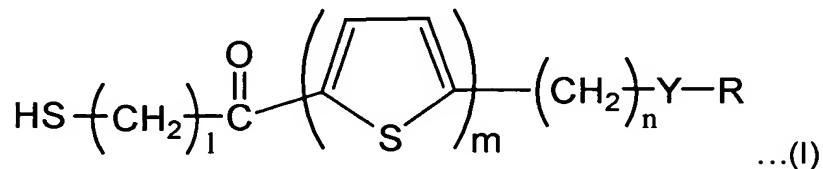


Abstract of the Disclosure

A conductive compound of formula (I) below, an electrode coated with the conductive compound, a sensor including the electrode, and a target molecule detection method using the sensor are provided:

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wherein Y is a carbonyl or -NH-; R is one of H, OH, a leaving group, and a probe group; I is an integer from 3 to 6; m is an integer from 1 to 4; and n is an integer from 0 to 3.